

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov



Notice of Staff Workshop

Demand Response R&D Symposium

The staff of the California Energy Commission will present a three-hour workshop describing the activities of the Public Interest Energy Research (PIER) demand response (DR) research and development program.

FORMAL PRESENTATIONS
TUESDAY, NOVEMBER 30, 2004
9 a.m. to 12 p.m.
SECRETARY OF STATE AUDITORIUM
1500 11th Street
Sacramento, California
(Wheelchair Accessible)

In addition to the formal presentations, an open-house featuring posters and demonstrations of the funded Research and Development activities will be displayed in the lobby of the California Energy Commission at 1516 Ninth Street (corner of Ninth and P Streets) from 11 a.m. to 2 p.m. The public is welcome to attend both events.

POSTER SESSION
TUESDAY, NOVEMBER 30, 2004
11 a.m. To 2 p.m.
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
First Floor, Hearing Room A
Sacramento, California
(Wheelchair Accessible)

Purpose of the Workshop

The workshop will describe the activities of the demand response (DR) research and development program that was implemented following the California electricity crisis of 2000-2001. A primary focus of the Research and Development program is to support the vision that California needs a real-time demand-side infrastructure in order to respond to old and new supply-side problems. This DR infrastructure will need to be

compatible with the operational requirements of California's Independent System Operator and the state's electric utility companies while serving the loads and needs of California's electricity customers.

The vision of a real-time DR infrastructure would join communications technology with dynamic tariffs to signal customers of changing economic and system conditions and inform system operators of customer response. The PIER DR R&D program is funding near, medium, and long-term R&D projects consistent with the above vision. The funded R&D leverages the work of other agencies and is focused on providing generic public interest solutions.

The speakers will include Joseph Desmond, Deputy Secretary for Energy, State of California; Dr. Arthur Rosenfeld, Commissioner, California Energy Commission; Professor Severin Borenstein, Director, University of California Energy Institute; Professor Paul Wright, Chair in Mechanical Engineering, University of California, Berkeley; Charles Goldman, Staff Scientist, Lawrence Berkeley National Laboratory; Thomas Yeh, Chief Technical Officer, Connected Energy Corp, and Mary Ann Piette, Research Director, Demand Response Research Center, Lawrence Berkeley National Laboratory.

The topics will range from describing California's demand policy objectives and initiatives to the early results of PIER-funded R&D. Presenters will describe lessons learned by other states, shed capacities of large electrical loads, and emerging technologies that could have large positive economic and social impacts on California's citizens.

Registration is free, but pre-registration is requested.

Public Participation

The Energy Commission's Public Adviser, Margret J. Kim, provides the public assistance in participating in Energy Commission activities. If you would like information on how to participate in this workshop, please contact the Public Adviser's Office by phone at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at [pao@energy.state.ca.us]. If you have a disability and require assistance to participate in this workshop, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

If you have technical questions of the subject matter of this notice, please call David Michel at (916) 651-9864. News media inquiries should be directed to Claudia Chandler, Assistant Executive Director, at (916) 654-4989.

Pre-registration is requested. Please RSVP to Rachel MacDonald at Rmacdona@energy.state.ca.us

Demand Response R&D Symposium Agenda

November 30, 2004

Formal Presentations - (9:00 a.m. to noon, Secretary of State Auditorium)

9 a.m., Introductions and Opening Remarks:

- Laurie ten Hope, Energy Systems Integration, PIER Program Area Lead (*Welcome and Overview of Presentations*)
- Joseph Desmond, Deputy Secretary for Energy, State of California (*California's Near- and Long-Term Demand Response Policy Objectives*)
- Dr. Arthur Rosenfeld, Commissioner, California Energy Commission (*California Energy Commission Demand Response Initiatives*)
- Ron Hofmann, PIER DR Program Advisor, (*PIER's Demand Response Research and Development Program Overview*)

9:45 a.m., Demand Response Research Center (DRRC) R&D Projects

- Nancy Jenkins, Buildings, PIER Program Area Lead (*Establishment of a PIER Demand Response Research Center*)
- Mary Ann Piette, Research Director, Demand Response Research Center, Lawrence Berkeley National Laboratory (*Demand Response Research Center Vision & Opportunities*)
- Charles Goldman, Staff Scientist and the group leader of the Electricity Markets and Policy Group, Lawrence Berkeley National Laboratory, (*Case Study of a Successful Utility Real-Time Pricing Program in New York*)

10:20 a.m., Break

10:35 a.m., DRRC R&D Projects continued

- Mary Ann Piette, Research Director, Demand Response Research Center, Lawrence Berkeley National Laboratory (*Automated Demand Response in Large Commercial, Industrial and Institutional Buildings*)

10:55 a.m., DR Enabling Technology R&D Projects

- Thomas Yeh, Chief Technical Officer, Connected Energy Corp., (*Advanced Distributed Energy Resources Communications Architecture for Dispatching Demand Response*)
- Professor Paul Wright, A. Martin Berlin Chair in Mechanical Engineering, University of California, Berkeley UCB ETD (*Enabling Technologies for Demand Responsive Meters, Thermostats and Temperature Sensors*)

11:30 a.m., Closure

- Professor Severin Borenstein, Director, University of California Energy Institute and E.T. Grether Professor in Public Policy and Business Administration Haas Economic Analysis and Policy Group, University of California, Berkeley, (*Economic Implications of a High-Technology Demand Responsive Infrastructure*)
- Laurie ten Hope, Energy Systems Integration, PIER Program Area Lead, (*Summary & Conclusions*)

Demos & Posters – (11 a.m. to 2 p.m., California Energy Commission Lobby)

Note: California Energy Commission's formal name is State of California Energy Resources Conservation and Development Commission.